

Fig. 1

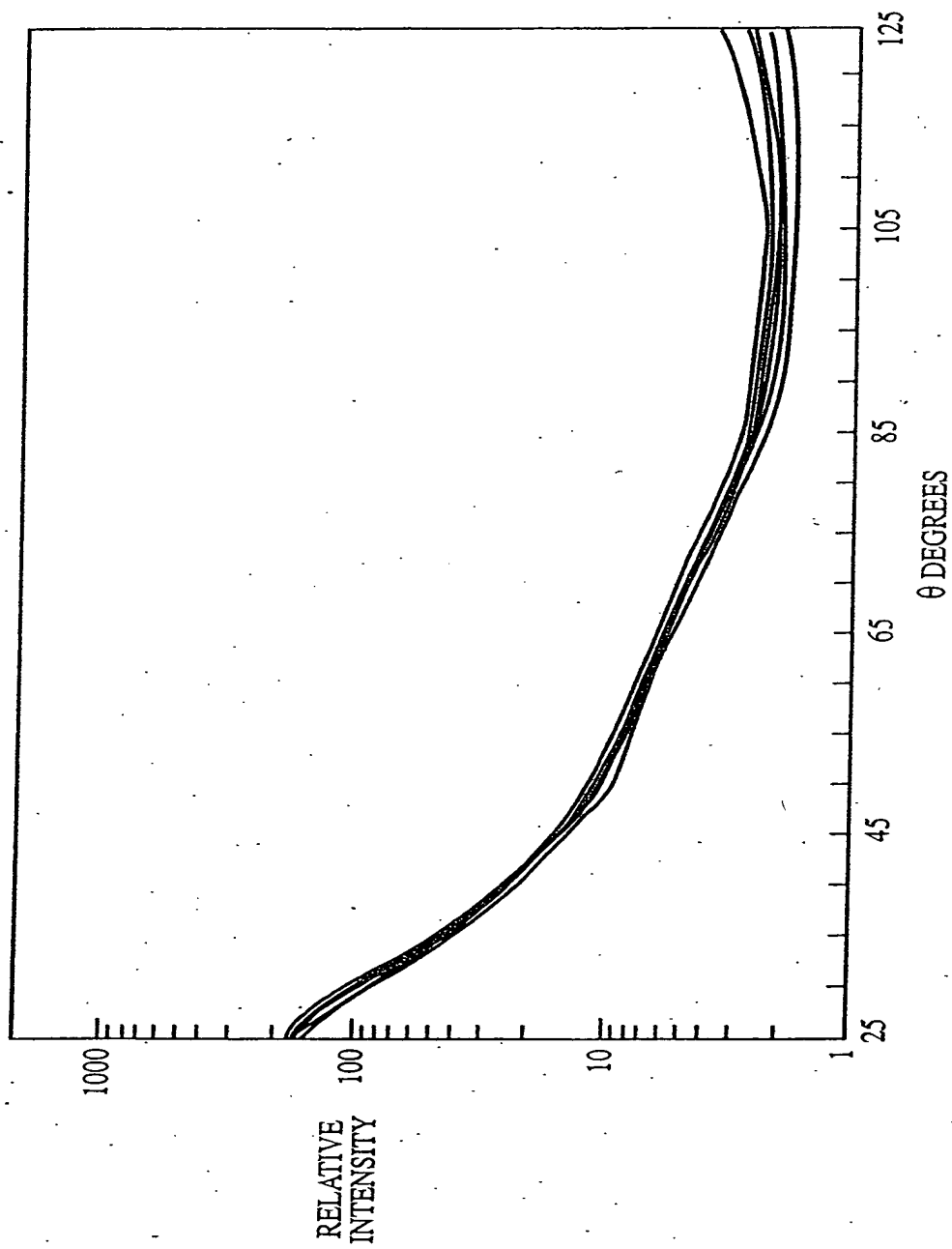


Fig. 2

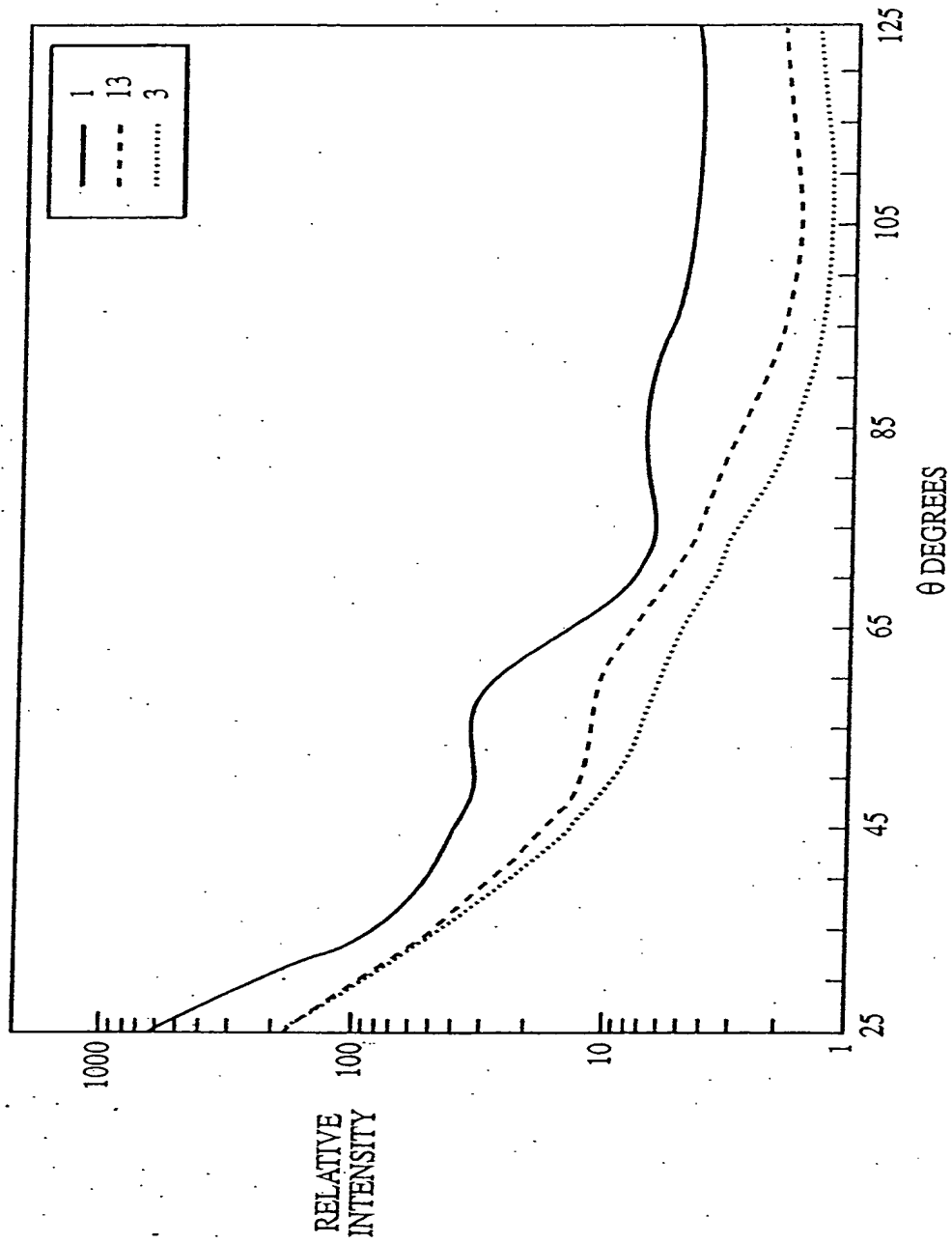


Fig. 3

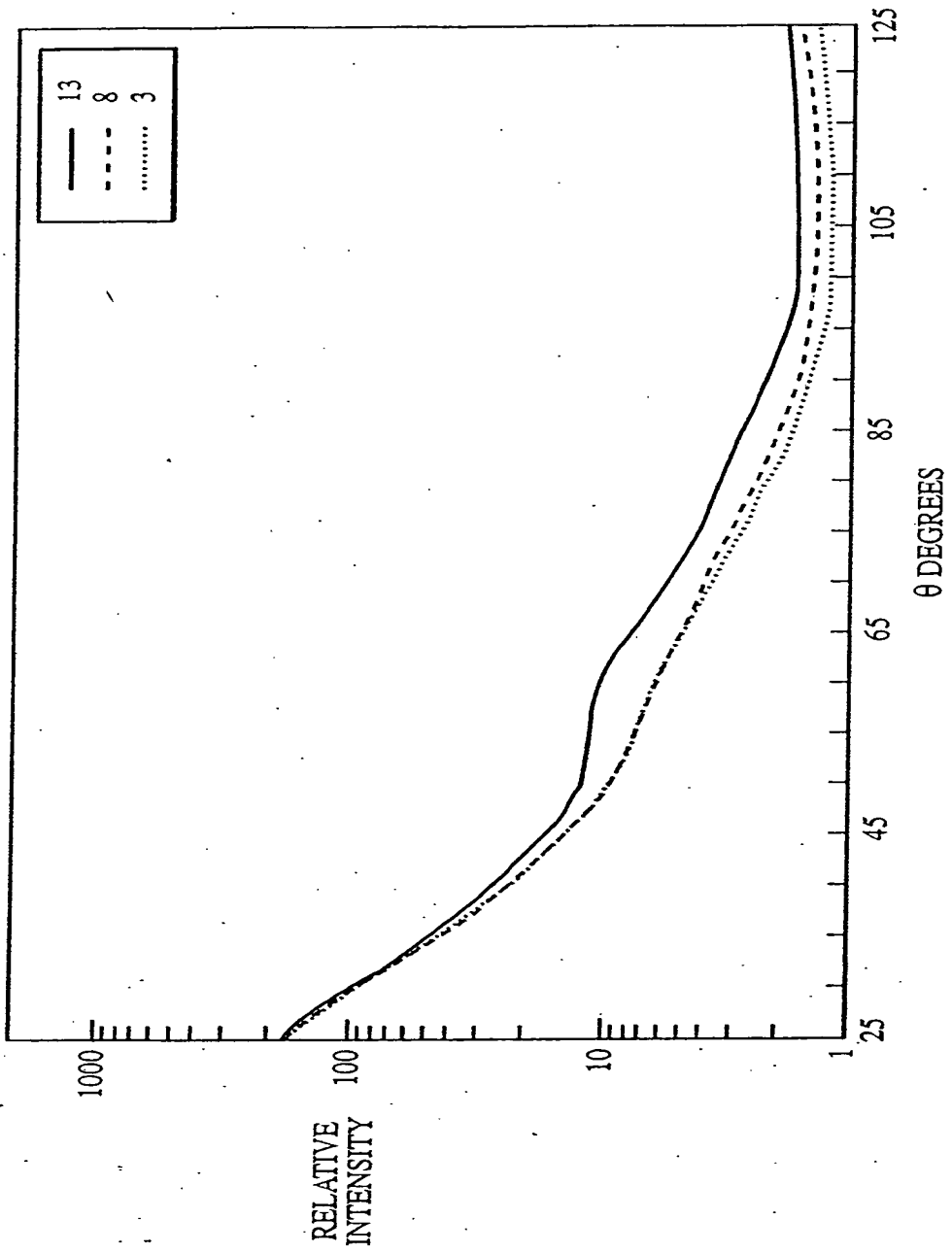


Fig. 4

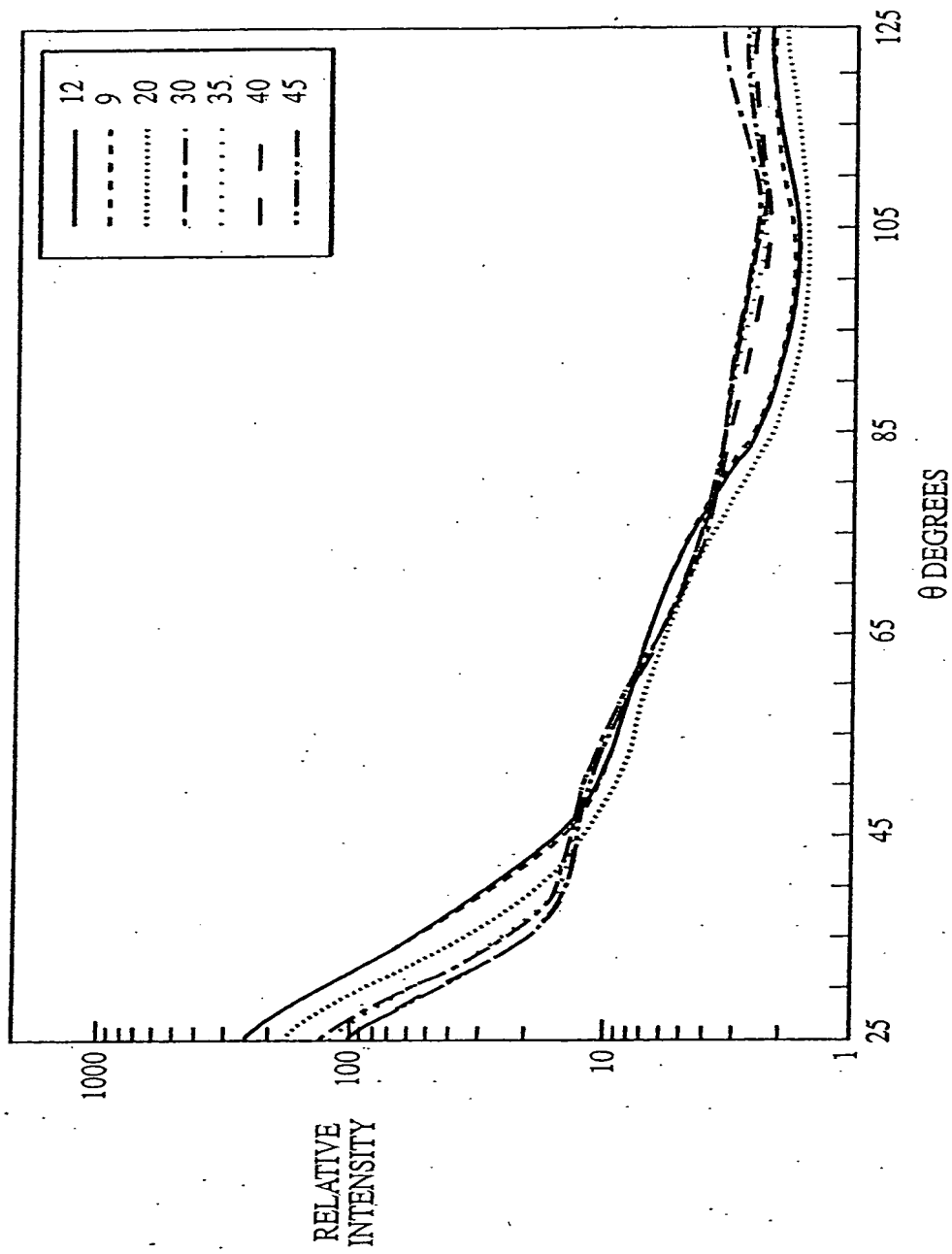


Fig. 5

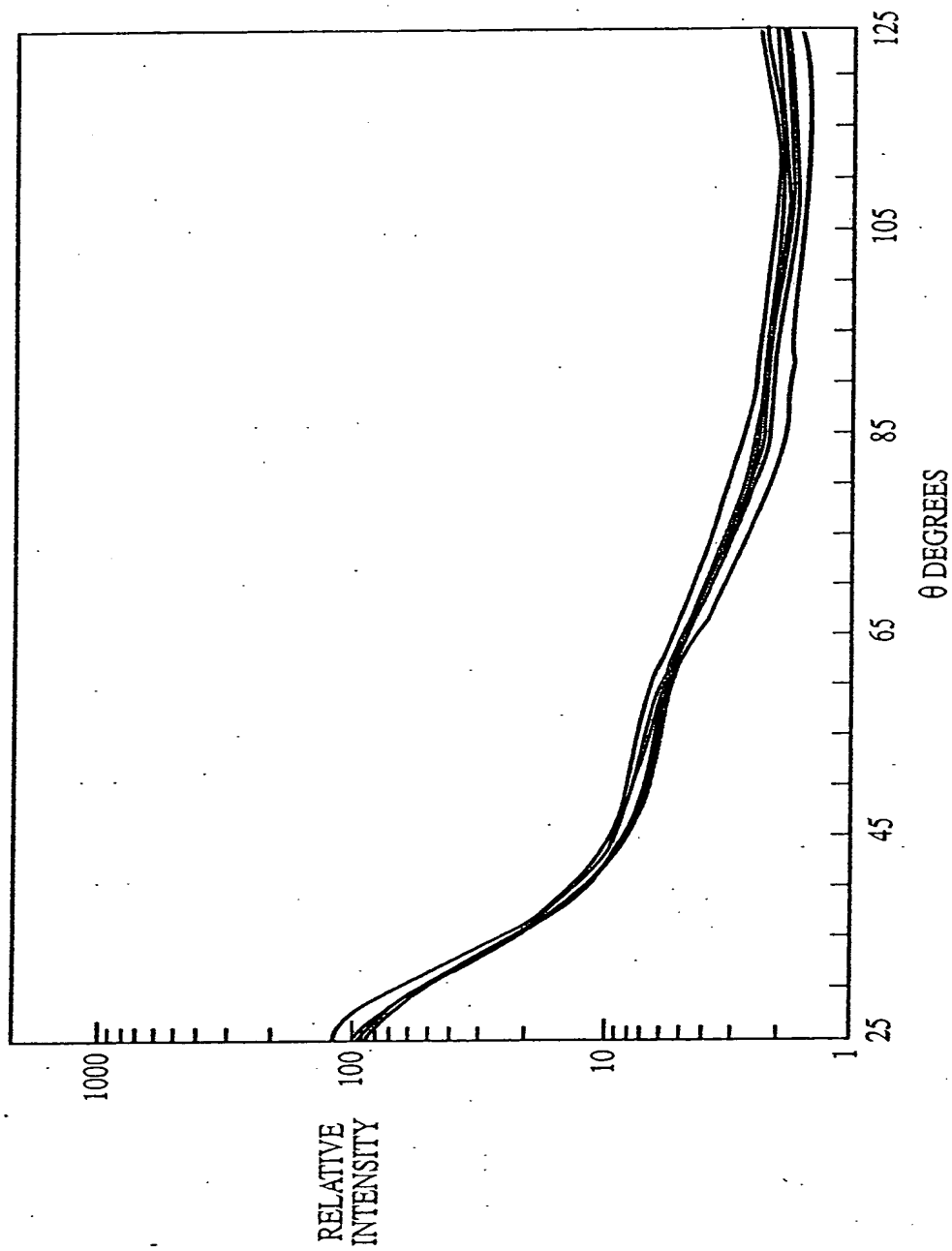


Fig. 6

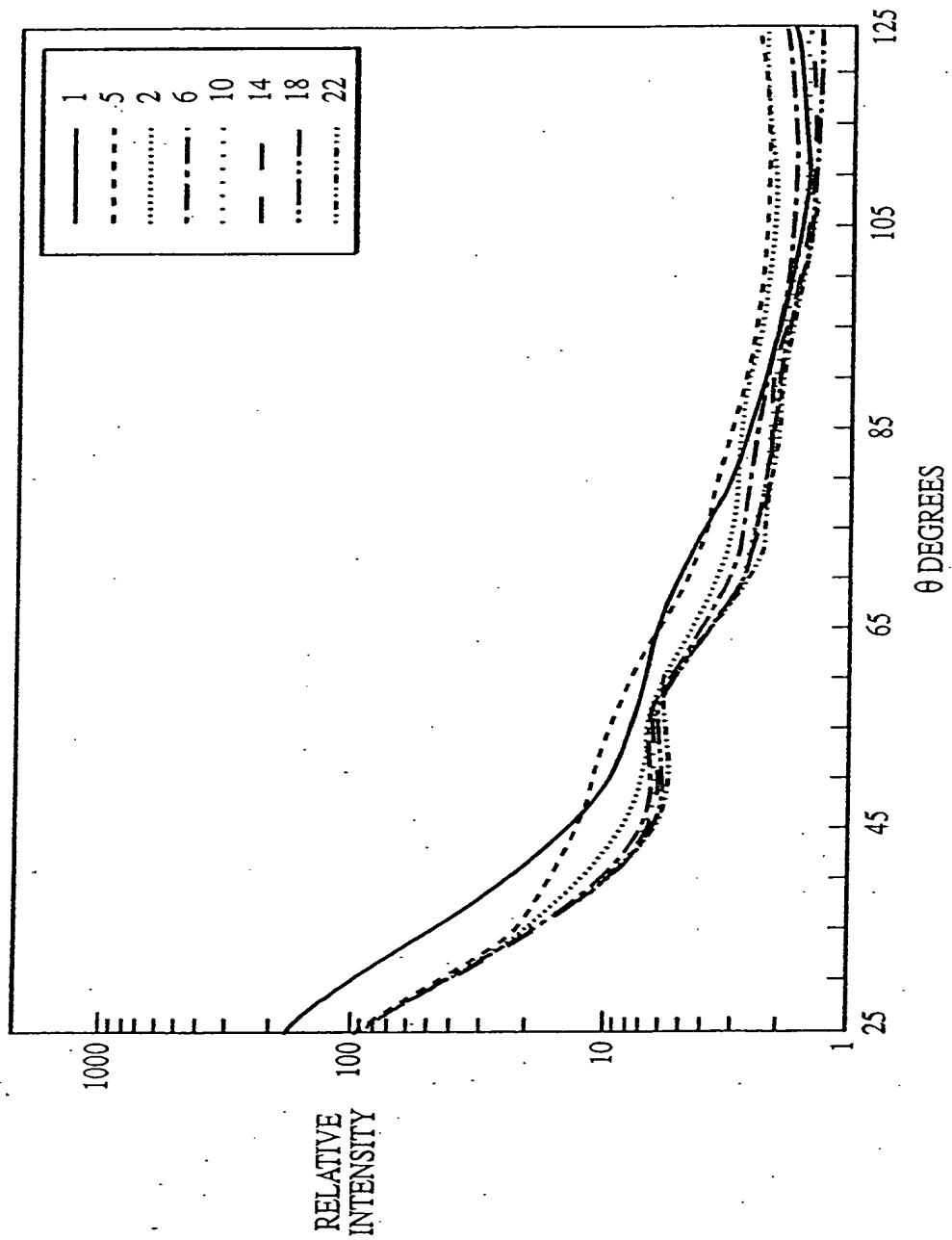


Fig. 7

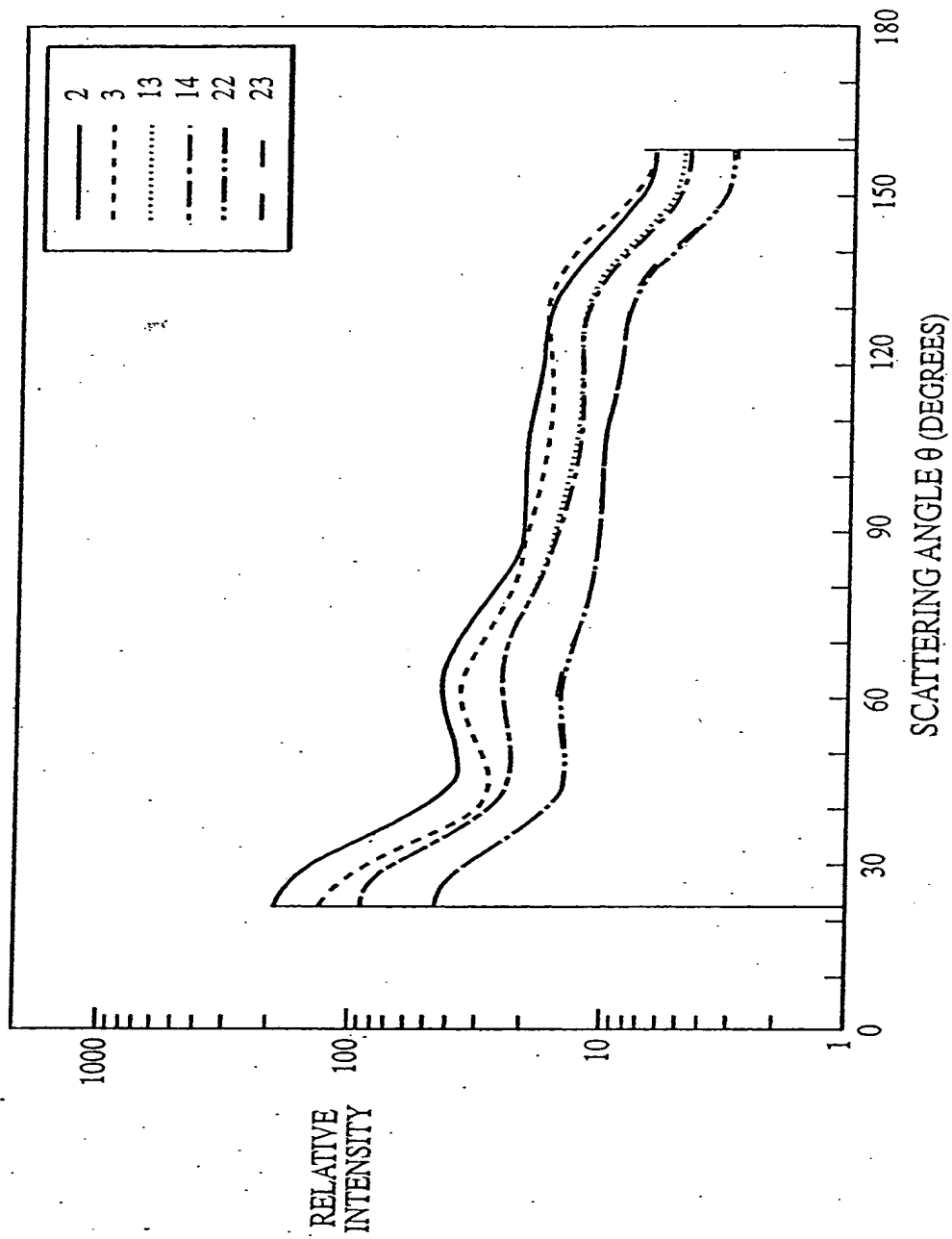


Fig. 8A



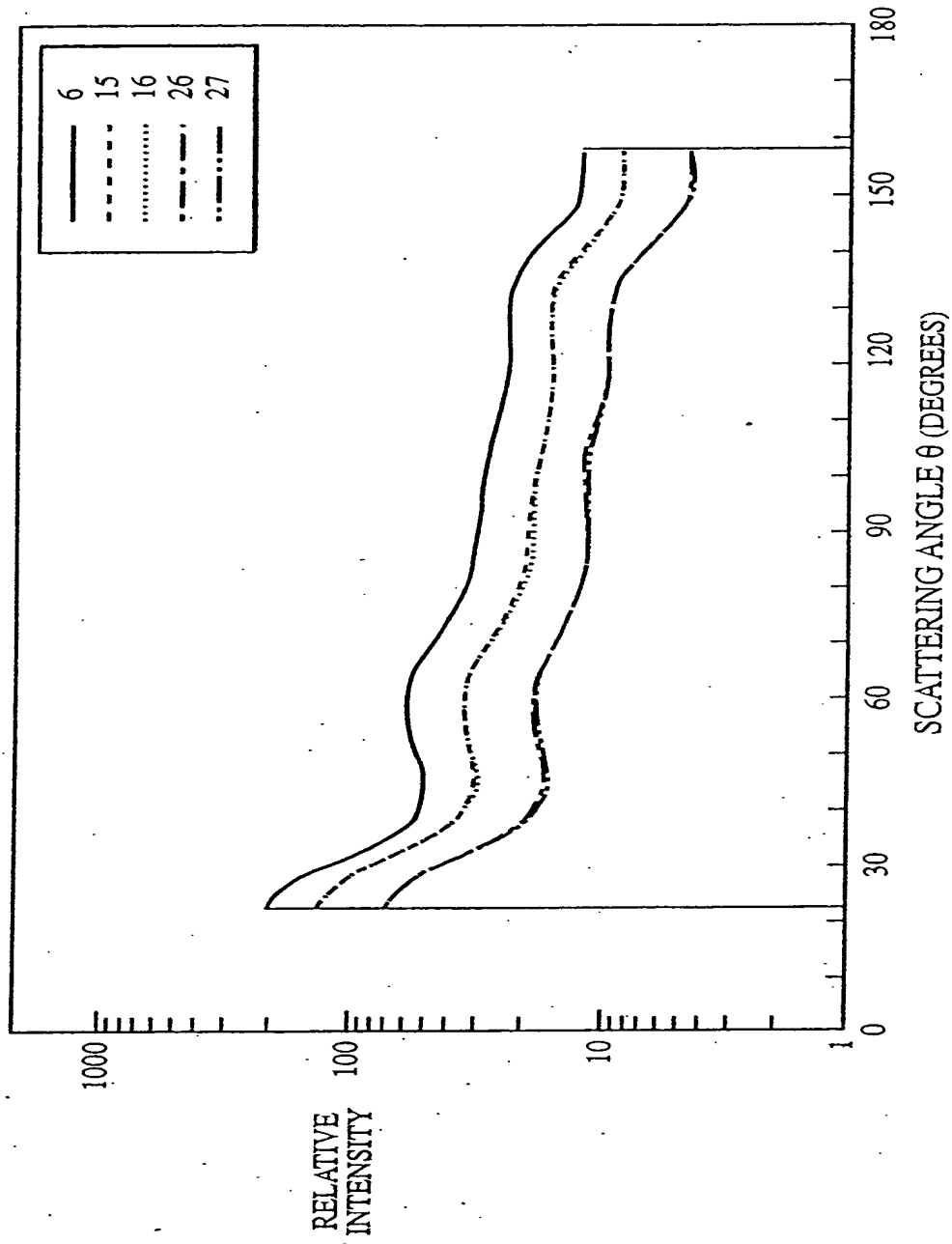


Fig. 8B

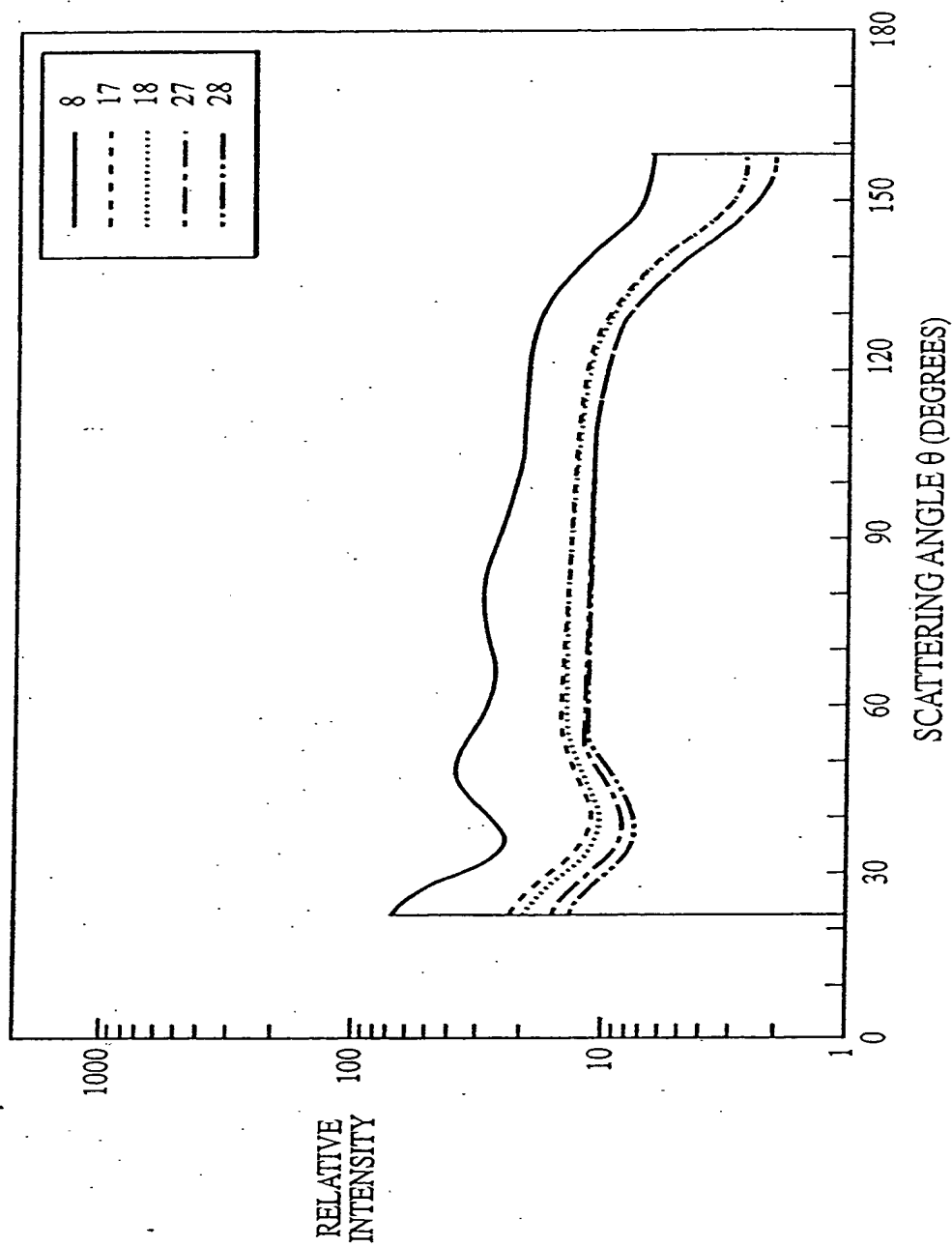


Fig. 8C

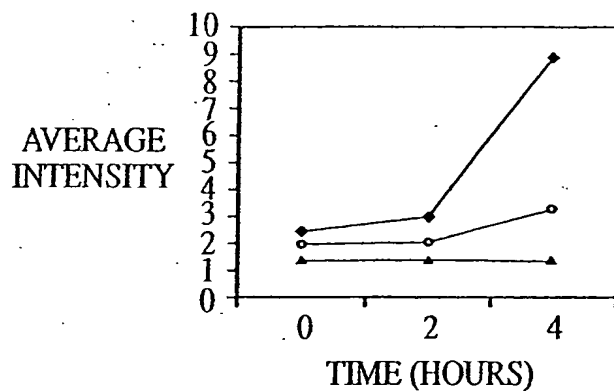


Fig. 9A

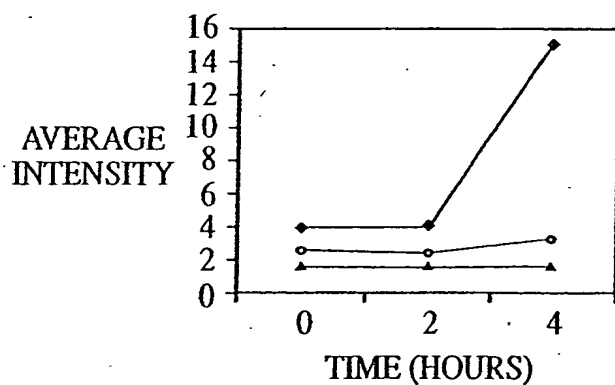


Fig. 9B

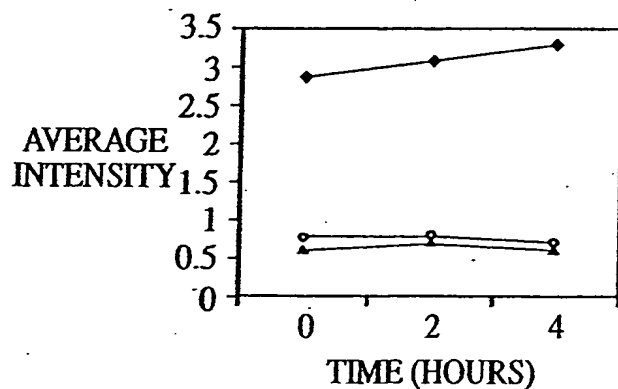


Fig. 9C

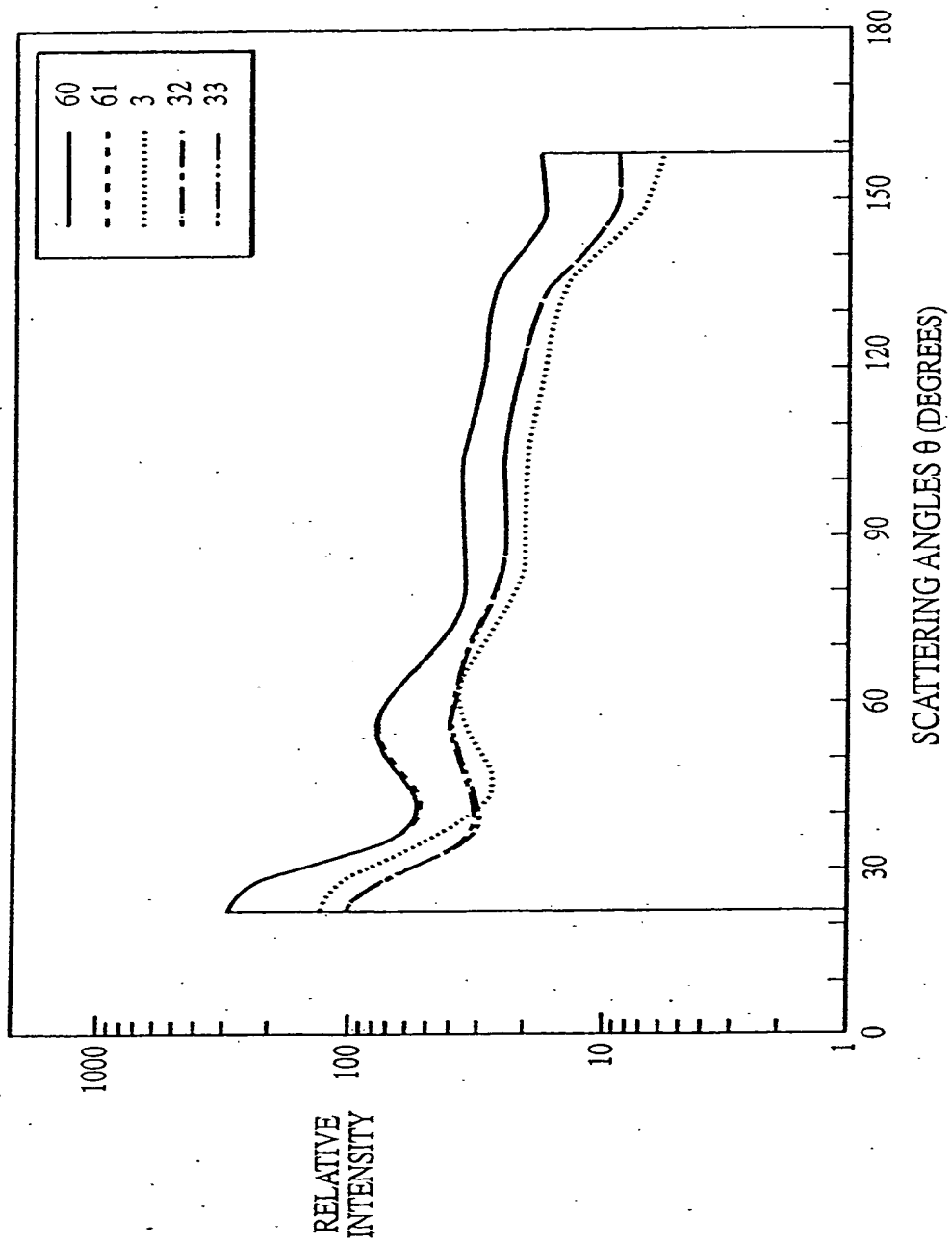


Fig. 10

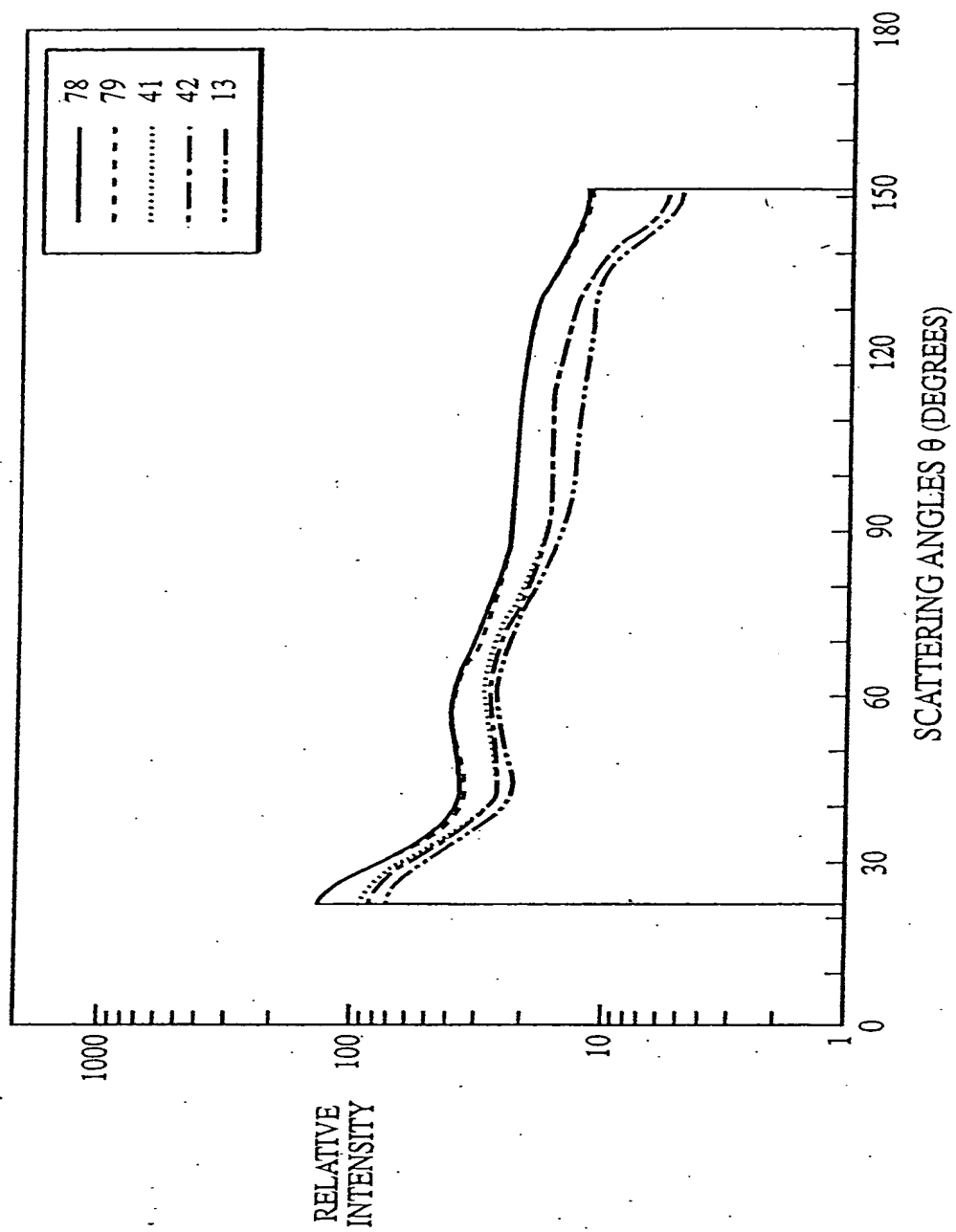


Fig. 11

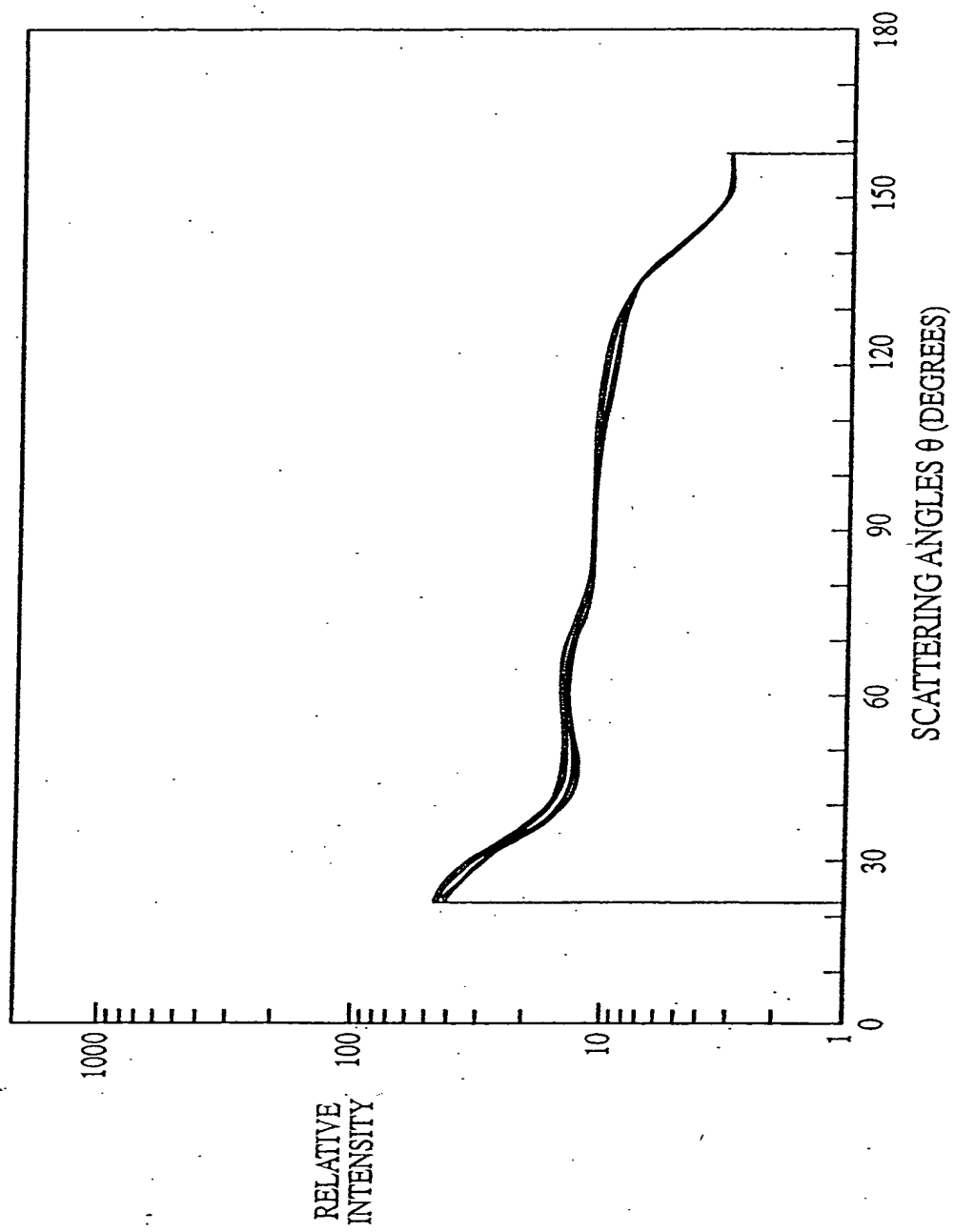


Fig. 12

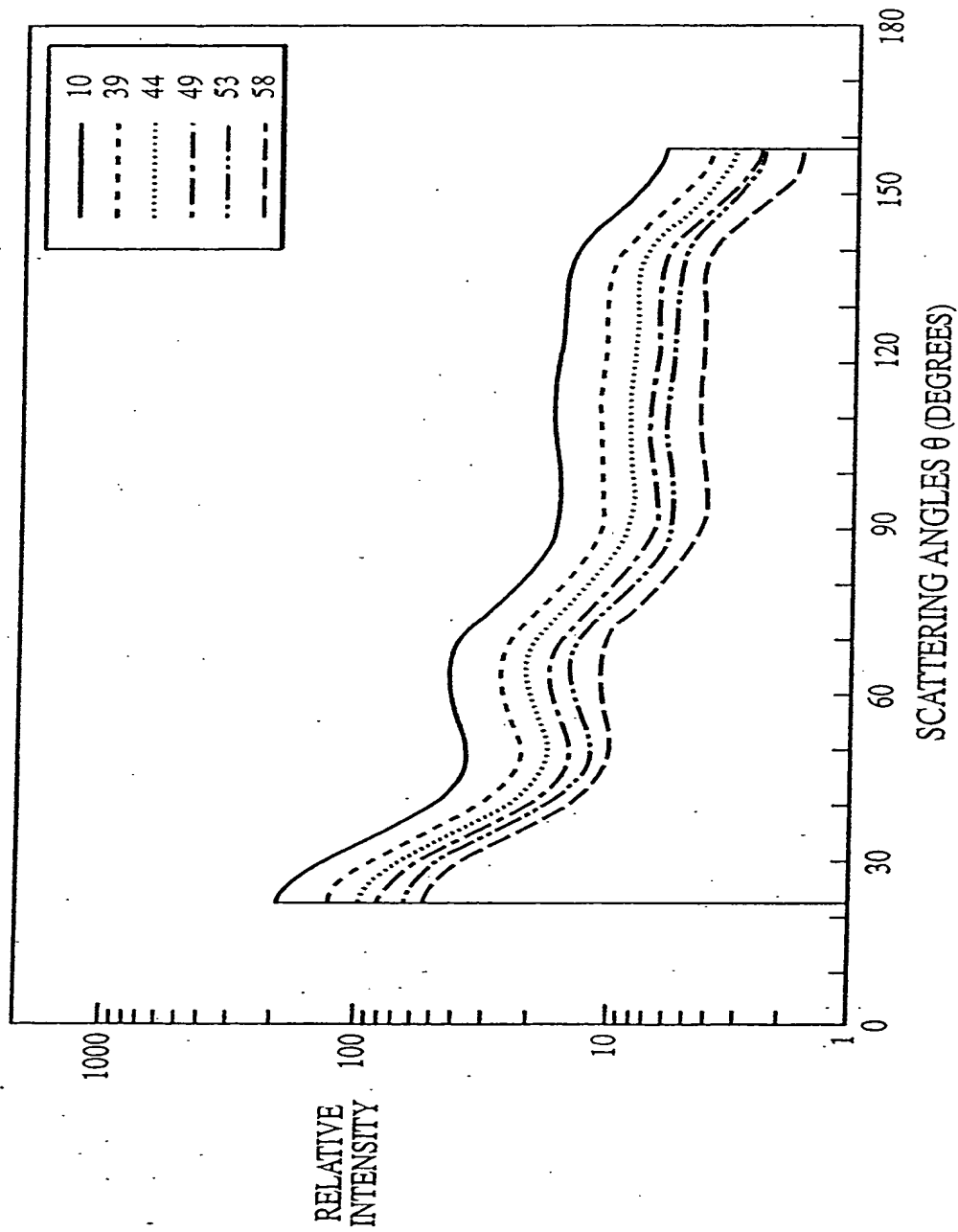


Fig. 13

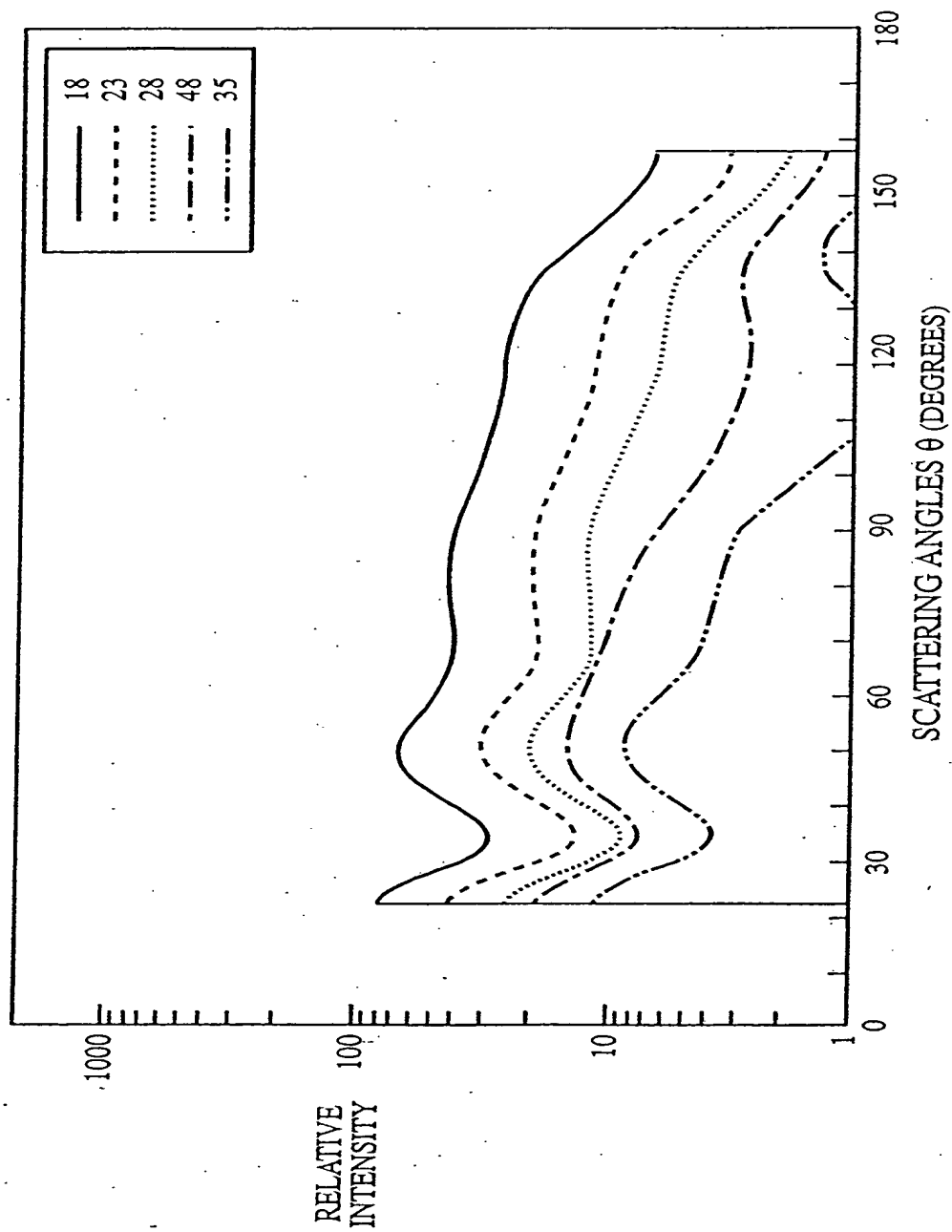


Fig. 14



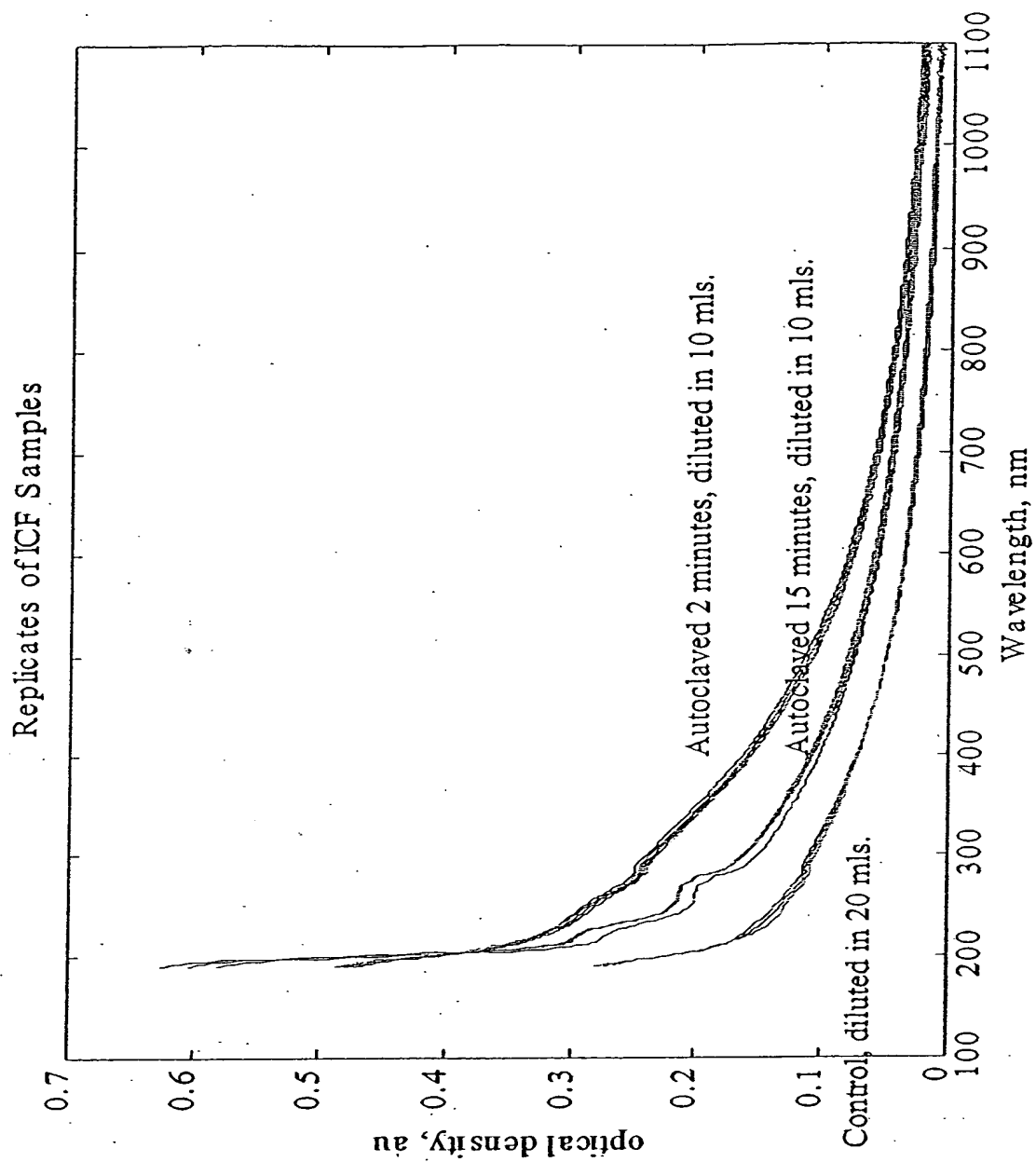


Fig. 15

RESULTS PROBLEM No:	Time 2 hours	RESULTS PROBLEM No:	Time 3 hours
ESTIMATES FOR A SINGLE POPULATION		ESTIMATES FOR A SINGLE POPULATION	
Mie Average Diameter (cm)	= 2.570334E-04 +/- 3.302753E-05	Mie Average Diameter (cm)	= 2.672413E-04 +/- 7.599205E-06
Concentration (g/mL) meas.	= 2.028209E-06	Concentration (g/mL) meas.	= 9.346907E-06
Concentration (g/mL) calc.	= 2.028209E-06 +/- 2.261741E-07	Concentration (g/mL) calc.	= 9.346907E-06 +/- 2.200983E-07
Particle No (#/mL)	= 228110.500000	Particle No (#/mL)	= 935316.800000
Residual sum of squares	= 5.012901E-05	Residual sum of squares	= 2.789136E-03
Res. sum of squares (Norm)	= 2.879399E-01	Res. sum of squares (Norm)	= 7.187017E-01
Standard Dev. (Residuals)	= 3.019001E-04	Standard Dev. (Residuals)	= 2.251923E-03
Standard Dev. (Norm. Res)	= 2.288071E-02	Standard Dev. (Norm. Res)	= 3.614872E-02
RESULTS PROBLEM No:	Time 4 hours	RESULTS PROBLEM No:	Time 5 hours
ESTIMATES FOR A SINGLE POPULATION		ESTIMATES FOR A SINGLE POPULATION	
Mie Average Diameter (cm)	= 1.969644E-04 +/- 1.826982E-06	Mie Average Diameter (cm)	= 1.405828E-04 +/- 1.859756E-06
Concentration (g/mL) meas.	= 3.055250E-05	Concentration (g/mL) meas.	= 2.712445E-05
Concentration (g/mL) calc.	= 3.055250E-05 +/- 2.933861E-07	Concentration (g/mL) calc.	= 2.712445E-05 +/- 4.164035E-07
Particle No (#/mL)	= 7636334.000000	Particle No (#/mL)	= 1.864516E+07
Residual sum of squares	= 5.679470E-03	Residual sum of squares	= 9.585535E-04
Res. sum of squares (Norm)	= 2.113989E-01	Res. sum of squares (Norm)	= 8.134952E-02
Standard Dev. (Residuals)	= 3.213458E-03	Standard Dev. (Residuals)	= 1.320161E-03
Standard Dev. (Norm. Res)	= 1.960514E-02	Standard Dev. (Norm. Res)	= 1.216175E-02

Fig. 16

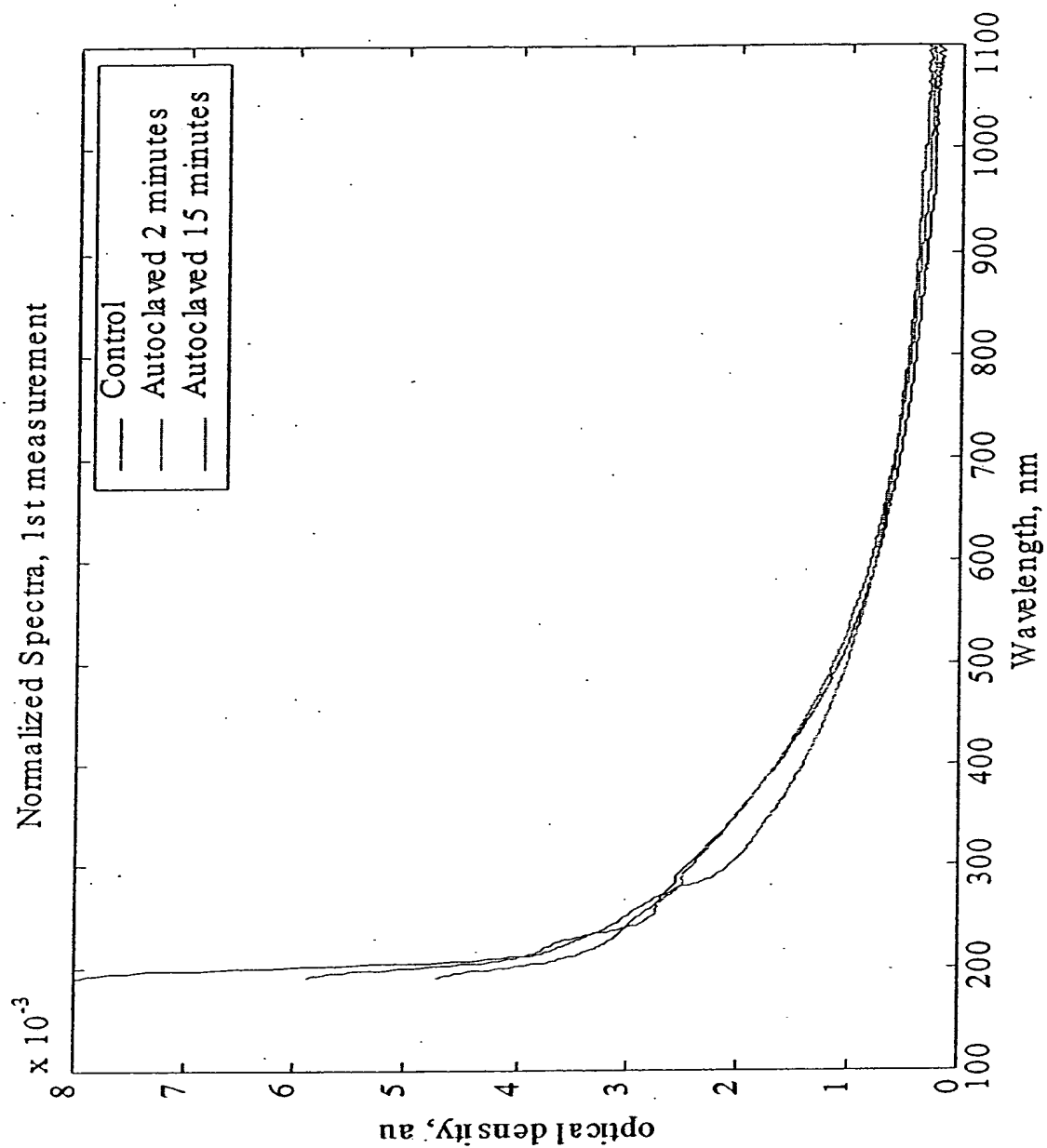


Fig. 17

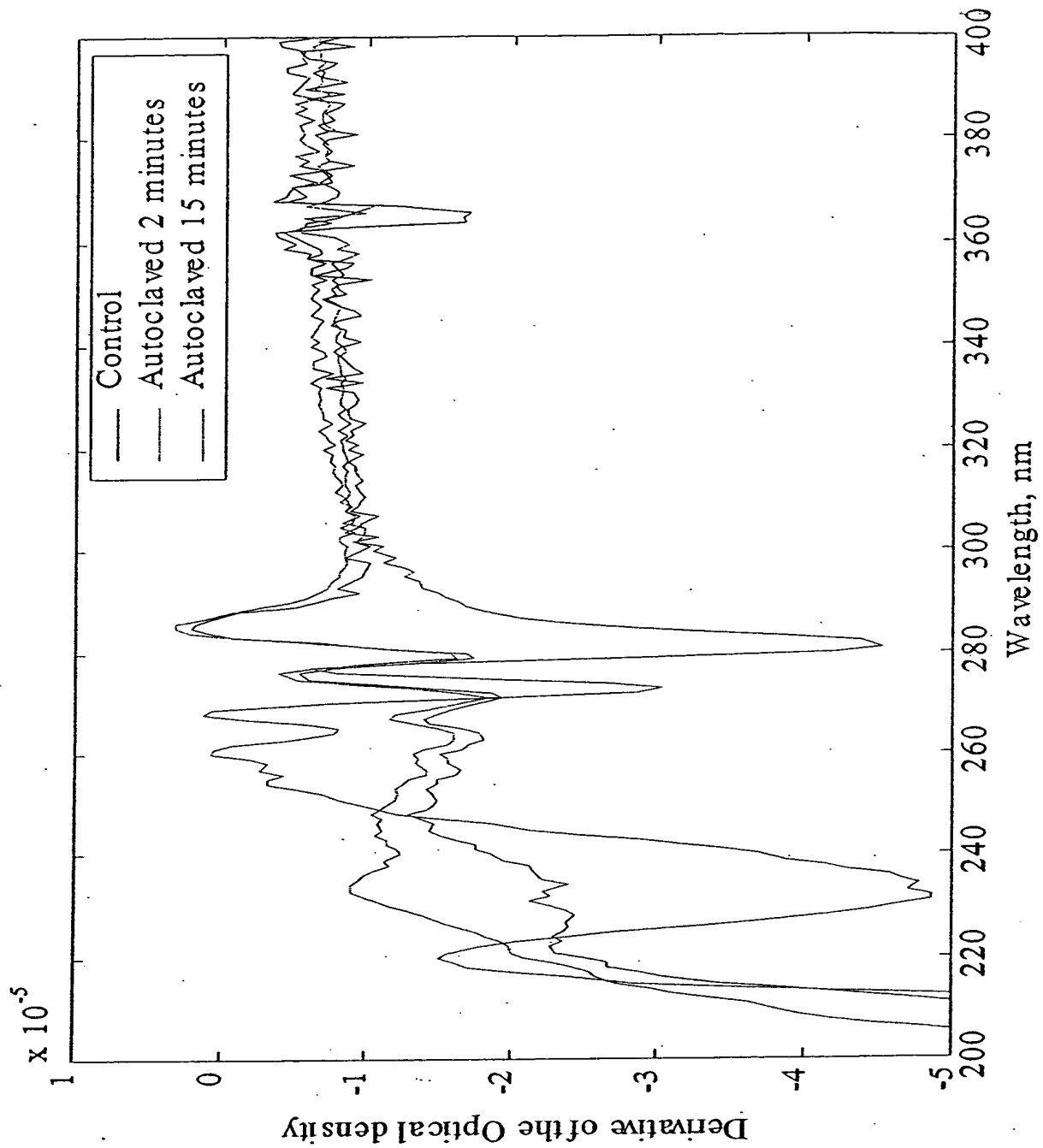


Fig. 18

Fractionation Curve of *B. subtilis* in 0.42% NaCl Solution

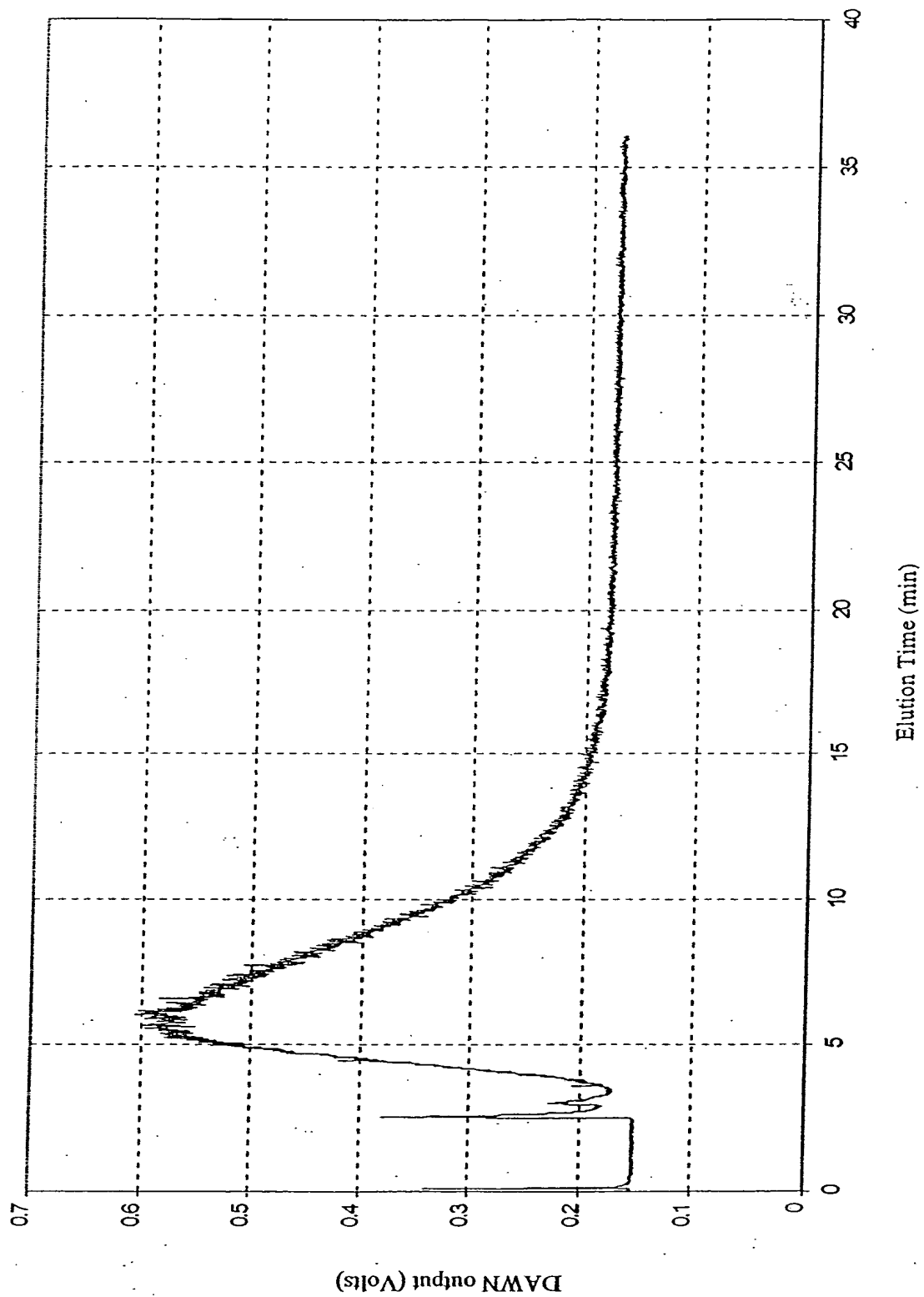


Fig. 19

Rayleigh Ratio vs. Angles from DAWN -- B.subtilis

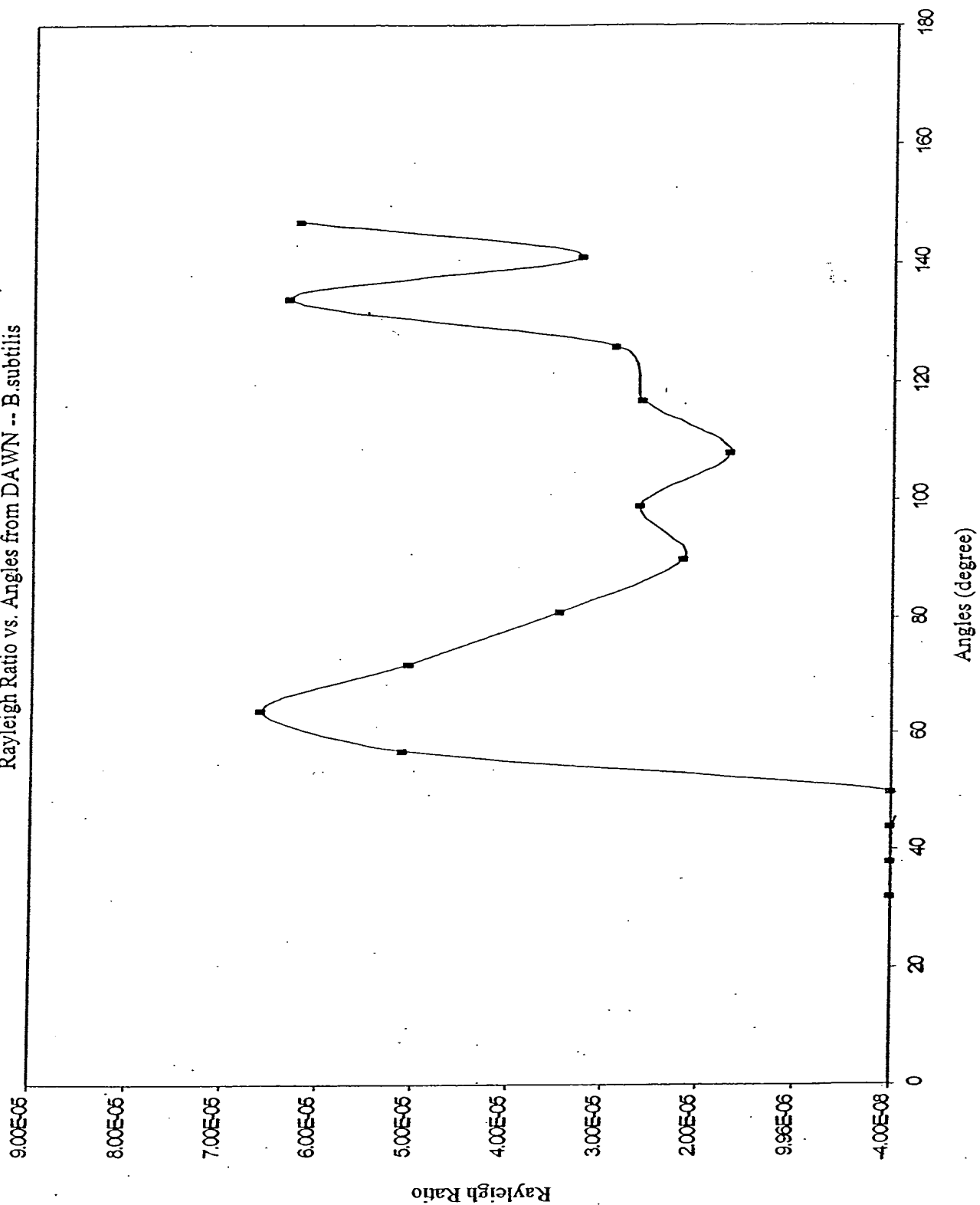


Fig. 20

Polar plot of *B. globigii*

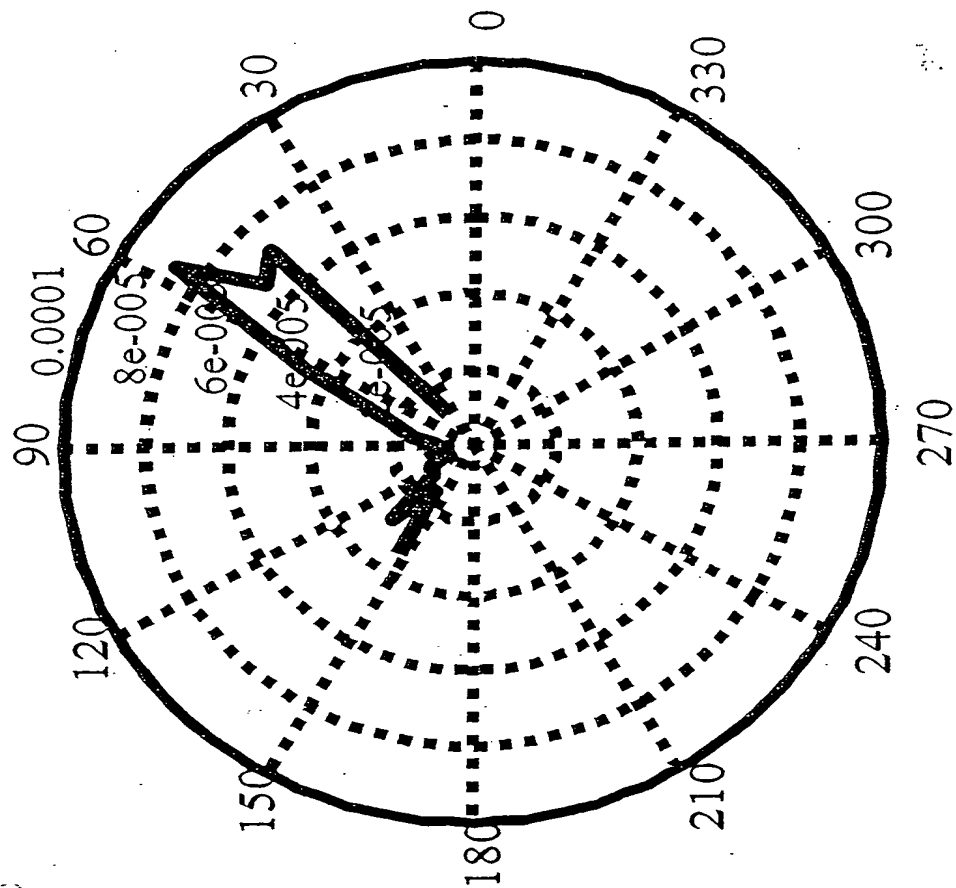


Fig. 21

Polar plot of *B. subtilis*

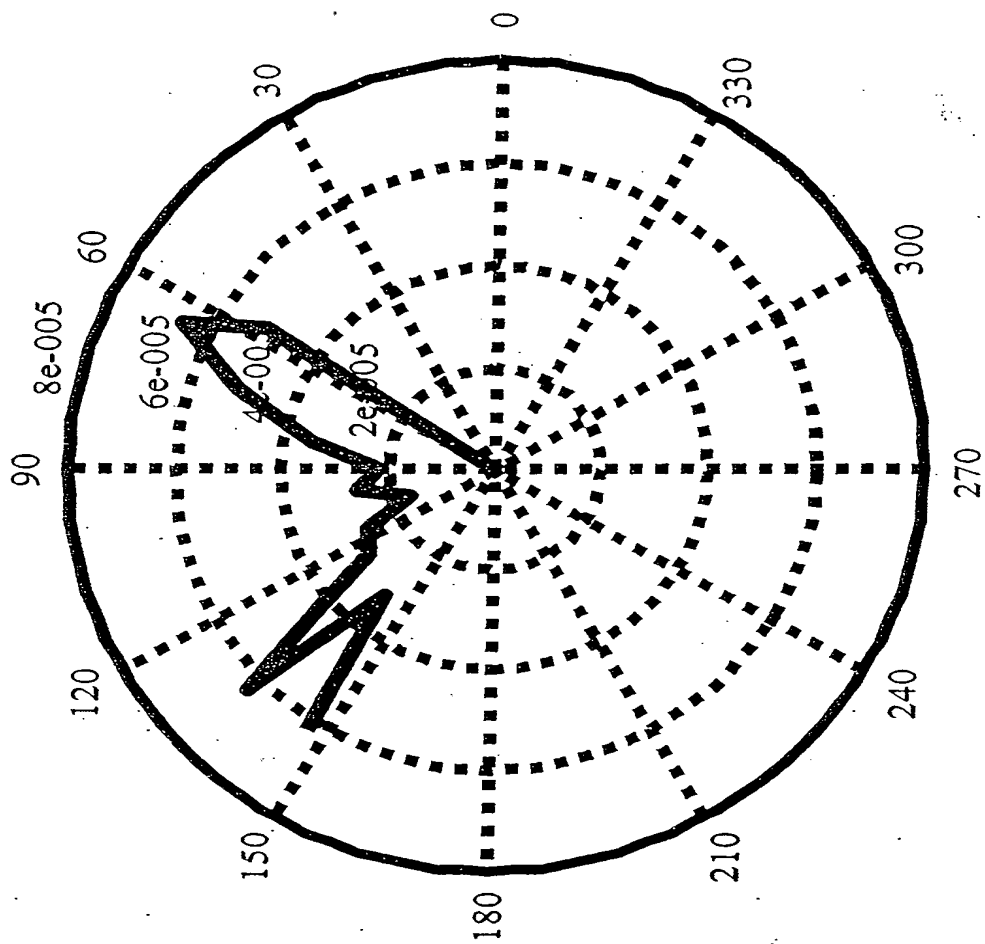


Fig. 22



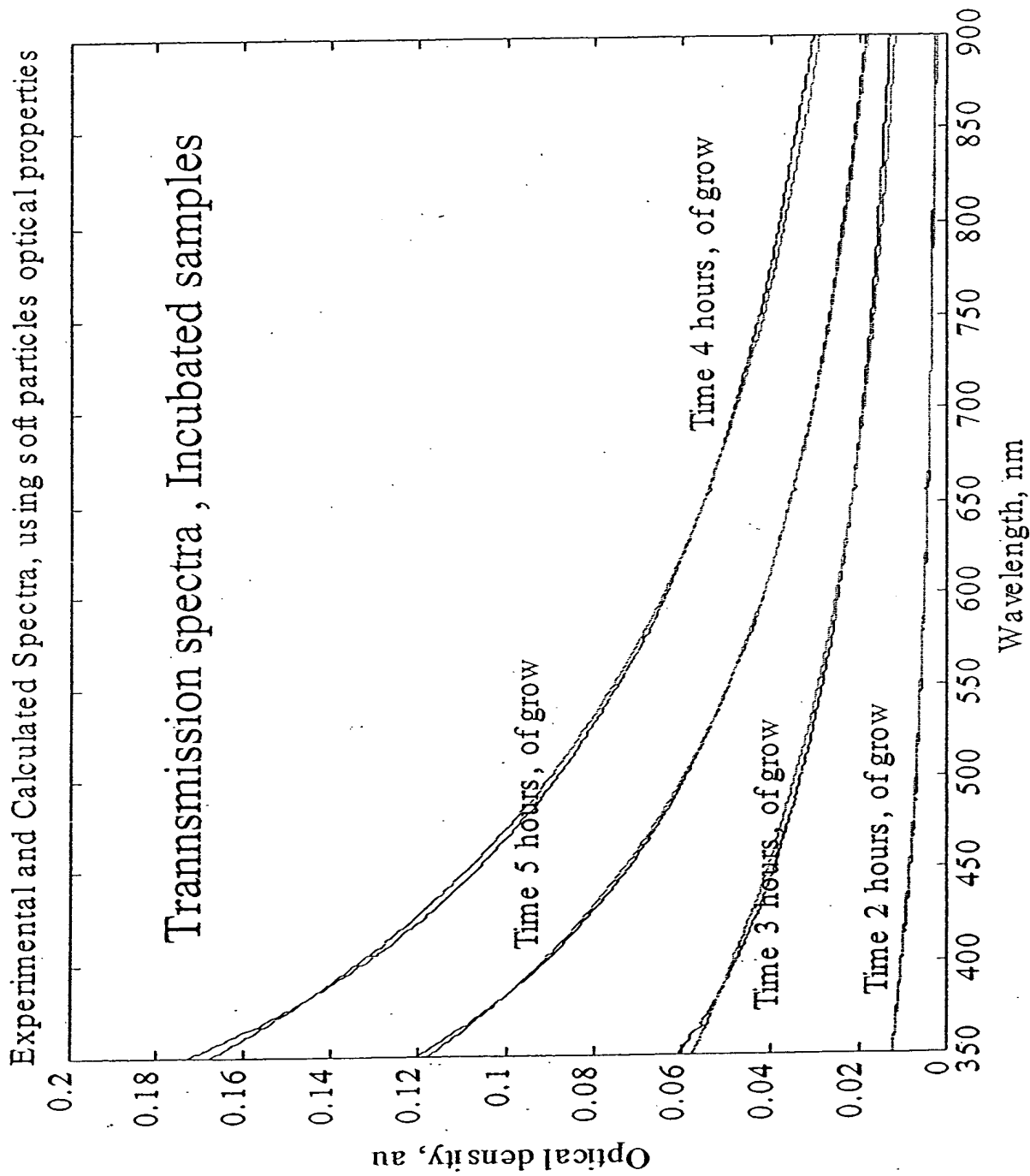


Fig. 23